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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/899,381	07/02/2001	Glenda C. Delenstarr	10010760-1	3033
7590 10/05/2005			EXAMINER	
Agilent Technologies, Inc.			SISSON, BRADLEY L	
Legal Department, DL429			ART UNIT	PAPER NUMBER
Intellectual Property Administration			ARTONII	PAPER NUMBER
PO Box 7599 Loveland, CO 80537-0599			1634 DATE MAILED: 10/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	)
Notice of Allewshills	09/899,381	DELENSTARR ET AL.	
Notice of Allowability	Examiner	Art Unit	i
	Bradley L. Sisson	1634	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT OF THE OFFICE	OR REMAINS) CLOSED in this apport of the communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	ve
1. This communication is responsive to <u>amendment of 18 Aug</u>	ust 2005 and interview of 28 Septer	<u>mber 2005</u> . ❖	•
2. The allowed claim(s) is/are <u>13,15,16,18-23 and 28-34</u> .			
<ul> <li>3. Acknowledgment is made of a claim for foreign priority under a)</li> <li>All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents</li> </ul>	been received. been received in Application No		
International Bureau (PCT Rule 17.2(a)).		•	
* Certified copies not received:		•	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply of ENT of this application.	complying with the requirements	•
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINER' s reason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.	•
5. CORRECTED DRAWINGS (as "replacement sheets") must	t be submitted.	÷	
(a) I including changes required by the Notice of Draftsperso	on's Patent Drawing Review ( PTO-	948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		•	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the O	ffice action of	•
Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the			
6. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F	SIT OF BIOLOGICAL MATERIAL IN FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.	
Attachment(s)	e Marie de la		
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	- <del></del>	atent Application (PTO-152)	
2.   Notice of Dranperson's Patent Drawing Review (P10-946)	6. ☑ Interview Summary Paper No./Mail Dat	ė .	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date</li> </ol>	B), 7. ⊠ Examiner's Amendr	nent/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8.   Examiner's Stateme	nt of Reasons for Allowance	
of Biological Material	9.		
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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Bret Field, Reg. No. 37,620, on 28 September 2005.

The application has been amended as follows:

- 13. (Amended) A method of detecting the presence of an analyte nucleic acid in a sample, said method comprising:
  - (a) providing a nucleic acid array comprising:
  - (i) at least one hybridization feature to which said analyte nucleic acid specifically binds under stringent hybridization conditions; and
  - (ii) at least one background feature, wherein said background feature is a polymeric composition that comprises background probes that do not <a href="https://www.hybridize">hybridize</a>
    [specifically bind under stringent hybridization conditions] to complementary nucleic acids in said sample; (b) contacting said nucleic acid array with said sample under stringent hybridization conditions;
    - (c) washing said nucleic acid array;
  - (d) detecting a hybridization signal from said hybridization feature and background signal from said background feature;

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(e) subtracting said background signal from said hybridization signal to obtain a

background corrected hybridization signal; and

(f) relating said background corrected hybridization signal to the presence of said

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analyte target nucleic acid in said sample to detect the presence of said analyte target

nucleic acid in said sample;

wherein said method is further characterized by including a target nucleic acid labeling step prior

to said detecting step (d).

28. (Amended) A method of detecting the presence of an analyte nucleic acid in a sample, said

method comprising:

(a) providing a nucleic acid array comprising;

(i) at least one hybridization feature to which said analyte nucleic acid specifically

binds under stringent hybridization conditions; and

(ii) at least one background feature, wherein said background feature is a

polymeric composition that comprises background probes that do not hybridize

[specifically bind under stringent hybridization conditions] to complementary nucleic

acids in said sample; (b) contacting said nucleic acid array with said sample under

stringent hybridization conditions;

(c) washing said nucleic acid array;

(d) detecting a hybridization signal from said hybridization feature and background signal

from said background feature;

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(e) subtracting said background signal from said hybridization signal to obtain a background corrected hybridization signal; and

(f) relating said background corrected hybridization signal to the presence of said analyte target nucleic said in said sample to detect the presence of said analyte target nucleic acid in said sample;

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wherein said method is further characterized by including a target nucleic acid labeling step prior to said detecting step (d); and

further wherein said background feature provides a background signal following said contacting step that comprises: (i) a feature substrate background component; (ii) a probe background component; and (iii) a non-specific binding background component and tests positive in a two-color self-self array hybridization assay.

- 2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley L. Sisson whose telephone number is (571) 272-0751. The examiner can normally be reached on 6:30 a.m. to 5 p.m., Monday through Thursday.
- 3. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, W. Gary Jones can be reached on (571) 272-0745. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 4. Information regarding the status of an application may be obtained from the Patent

  Application Information Retrieval (PAIR) system. Status information for published applications
  may be obtained from either Private PAIR or Public PAIR. Status information for unpublished
  applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bradley L. Sisson Primary Examiner Art Unit 1634

BLS 30 September 2005